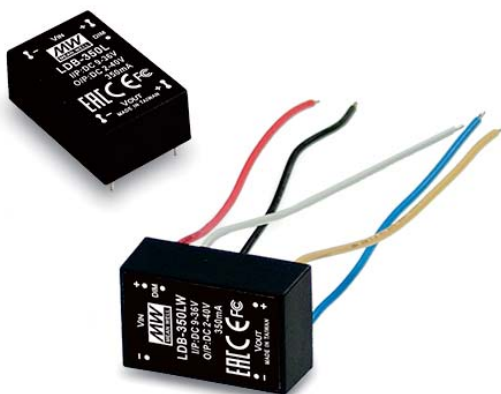




Наличие и актуальные цены на

LDB-500L

<https://www.mean-well.ru/store/LDB-500L/>



■ Features :

- DC/DC buck-boost converter
- Constant current output: 300mA to 600mA
- Wide input voltage: 9 ~ 36VDC
- Wide output LED string voltage: 2 ~ 40VDC
- High efficiency up to 91%
- Comply with BS EN/EN55015 and FCC part15
- Built-in PWM and remote ON/OFF control
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully encapsulated with IP67 level
- Compact size
- High reliability
- Suitable for driving illumination LED
- 3 years warranty

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>


LDB-350L ☒ Blank : pin style
W : wire style

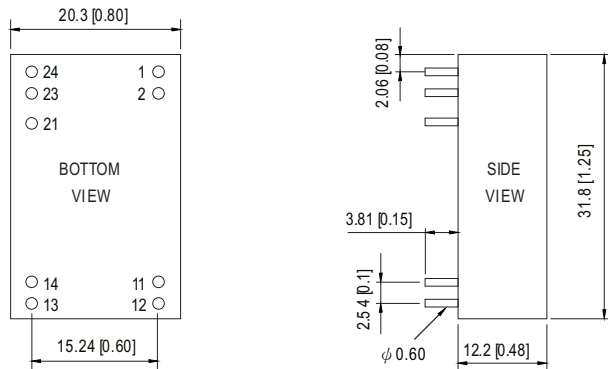
SPECIFICATION

ORDER NO.				LDB-300L ☐	LDB-350L ☐	LDB-500L ☐	LDB-600L ☐
OUTPUT	CURRENT RANGE		300mA		350mA	500mA	600mA
	VOLTAGE RANGE Note.4		2 ~ 40VDC		2 ~ 40VDC	2 ~ 32VDC	2 ~ 30VDC
	CURRENT ACCURACY (Typ.)		±5%				
	RIPPLE & NOISE(max.) Note.2		150mVp-p		150mVp-p	150mVp-p	200mVp-p
	SWITCHING FREQUENCY		1000KHz				
	NO LOAD OUTPUT VOLTAGE		75VDC				
INPUT	VOLTAGE RANGE Note.4		9 ~ 36VDC		9 ~ 36VDC	9 ~ 30VDC	9 ~ 28VDC
	EFFICIENCY (max.)		12VDC	86%	89%	87%	82%
			24VDC	90%	91%	89%	88%
	DC CURRENT	Full load	12VDC	930mA	1100mA	1590mA	2000mA
		24VDC	450mA	520mA	790mA	930mA	
			No load	2mA (Vin 24VDC)			
FILTER		Capacitor					
PWM DIMMING & ON/OFF CONTROL	REMOTE ON/OFF		Leave open if not use				
			Power ON with dimming: DIM ~ -Vin >2 ~ 10VDC or open circuit				
			Power OFF : DIM ~ -Vin < 0.5VDC or short				
	PWM FREQUENCY		100 ~ 1KHz				
MAX. PWM SIGNAL CURRENT		1mA					
PROTECTION	SHORT CIRCUIT		Regulated at rated output current				
			Protection type: Can be continued, recovers automatically after fault condition is removed				
	OVER TEMPERATURE		Tj 145℃ typically(IC1) detect on main control IC				
		Protection type : Shut down, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.		-40 ~ + 70℃ (Refer to derating curve)				
	WORKING HUMIDITY		20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY		-55 ~ +125℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT		±0.03% / °C				
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes				
	OPERATING CASE TEMP. (max.)		115℃				
EMC	SAFETY STANDARDS		EAC TP TC 020/2011 approved				
	EMC EMISSION		Compliance to BS EN/EN55015, FCC part 15 class B, EAC TP TC 020				
	EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020				
OTHERS	MTBF		350Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION		31.8*20.3*12.2mm or 1.25**0.8**0.48" inch (L*W*H)				
	WEIGHT		LDB-L:15.6g(15pcs/Tube) ; LDB-LW:18g(20pcs/Box), Please order Base on MPQ				
	POTTING MATERIAL		Expoxy(UL94-V0)				
NOTE	1.All parameters are specified at normal input(24VDC), rated load, 25℃ 70% RH ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf capacitor. 3.The output of LDB-L should not be connected to the input of the same unit or output from other sources. 4. If input voltage is 36V then the output voltage operating range had better <38V.						

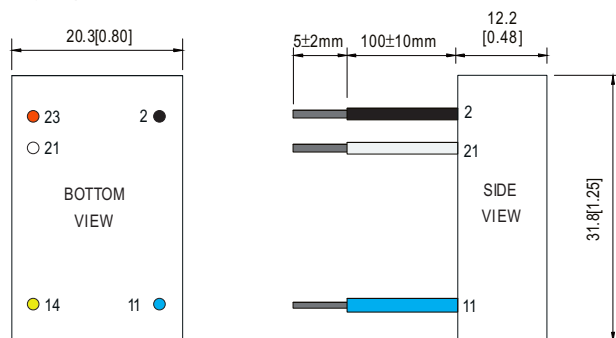
Mechanical Specification

Blank type(LDB – _L):

Unit: mm (inch)


NOTE: Pin tolerance ± 0.05 mm

W type(LDB – _LW):



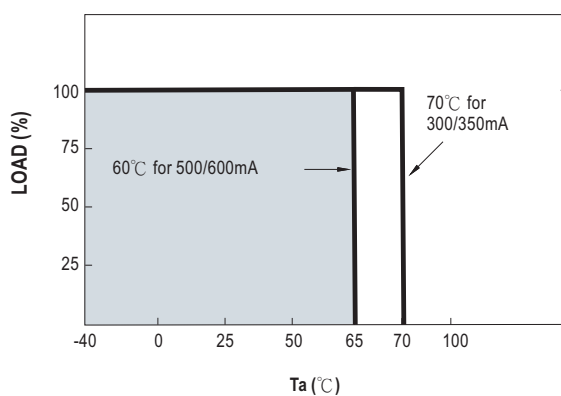
NOTE: All wires UL3385 22AWG

Pin Configuration

Pin No.		Comment
1,2	-Vin	Don't connect to -Vout
11,12	-Vout	LED - Connection
13,14	+Vout	LED + Connection
21	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)
23,24	+Vin	DC Supply

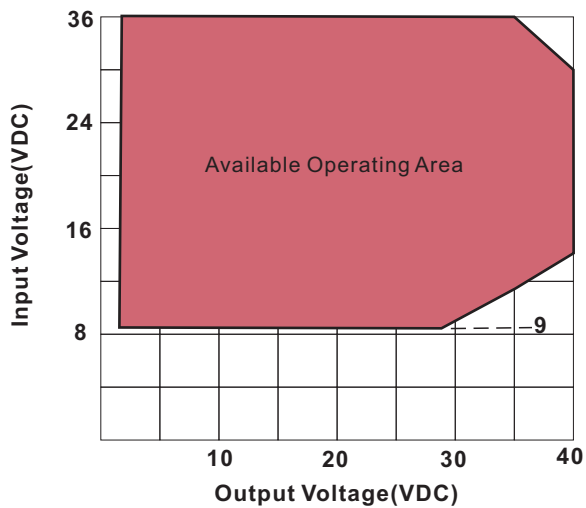
Pin No.		Comment
2	-Vin (Black)	Don't connect to -Vout
11	-Vout (Blue)	LED - Connection
14	+Vout (Yellow)	LED + Connection
21	PWM DIM (White)	ON/OFF and PWM Dimming (Leave open if not used)
23	+Vin (Red)	DC Supply

Derating Curve



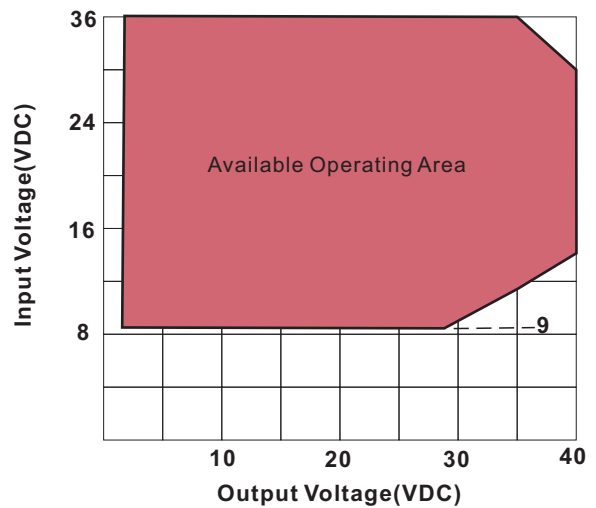
■ Safe Operating Area

OUTPUT CURRENT 300mA



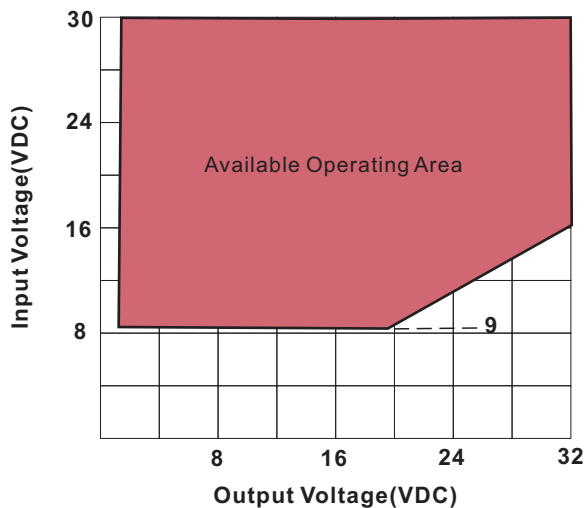
V_{in} 9V up to V_{out}=27V
V_{in} 12V up to V_{out}=36V

OUTPUT CURRENT 350mA



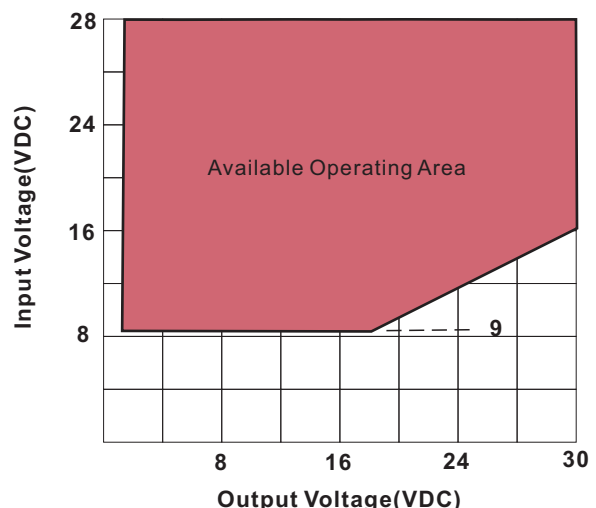
V_{in} 9V up to V_{out}=27V
V_{in} 12V up to V_{out}=36V

OUTPUT CURRENT 500mA



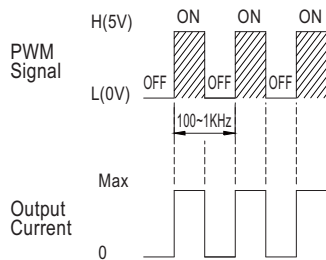
V_{in} 9V up to V_{out}=20V
V_{in} 12V up to V_{out}=24V
V_{in} 16V up to V_{out}=32V

OUTPUT CURRENT 600mA

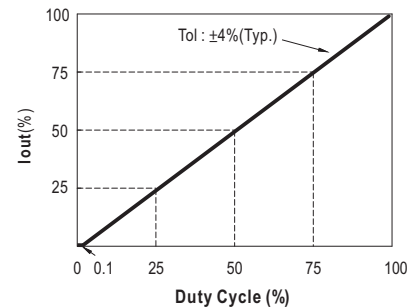


V_{in} 9V up to V_{out}=18V
V_{in} 12V up to V_{out}=24V
V_{in} 16V up to V_{out}=30V

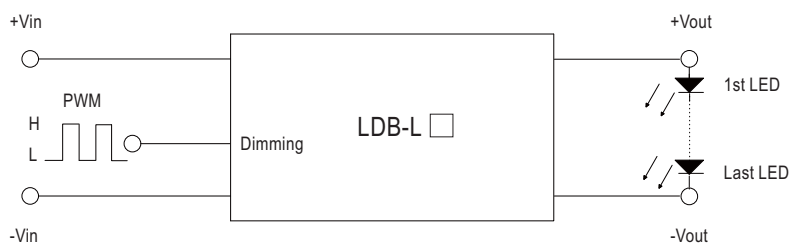
PWM Dimming Control



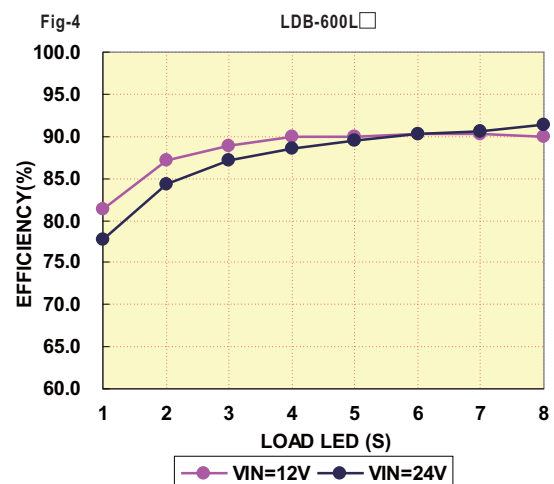
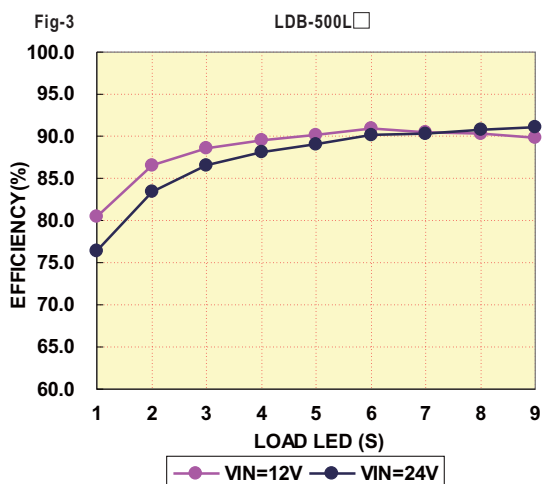
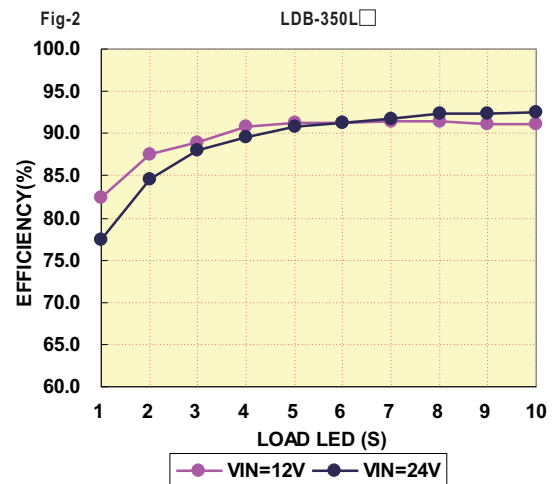
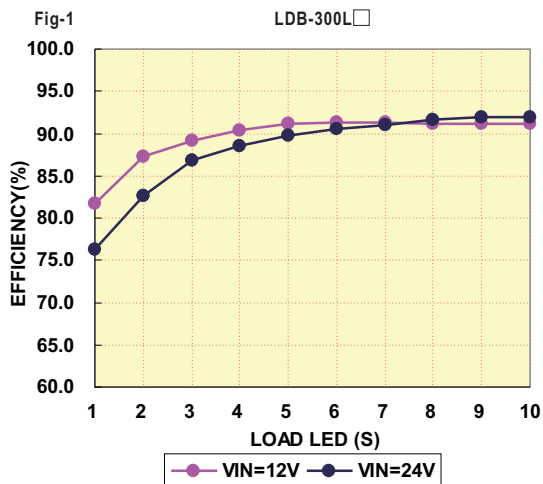
© During PWM dimming operation, the output current will change to PWM style.



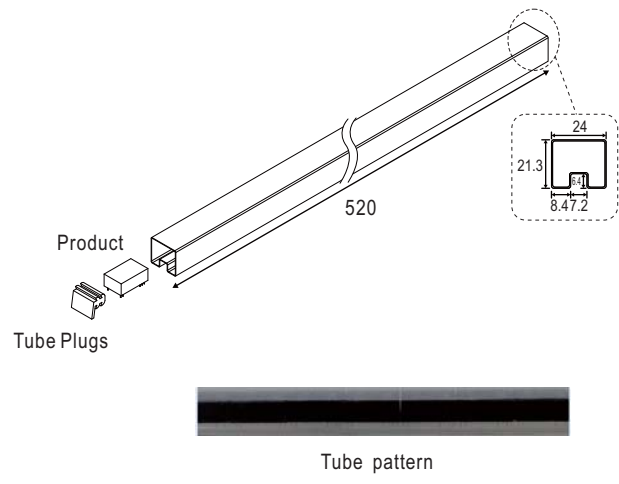
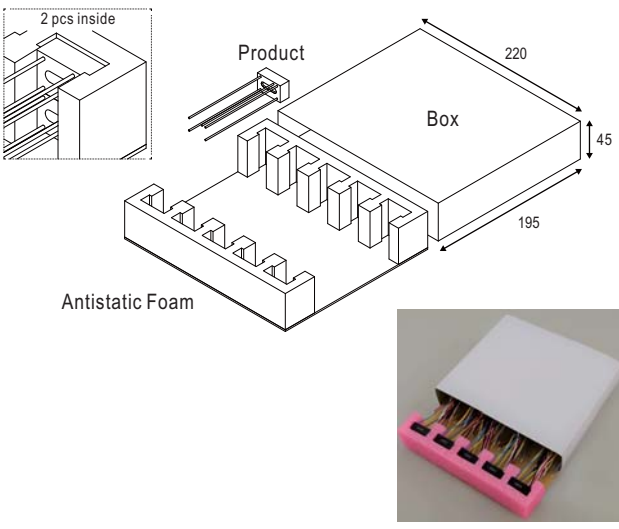
Standard Application



Efficiency VS Output Voltage (Number of LEDs)

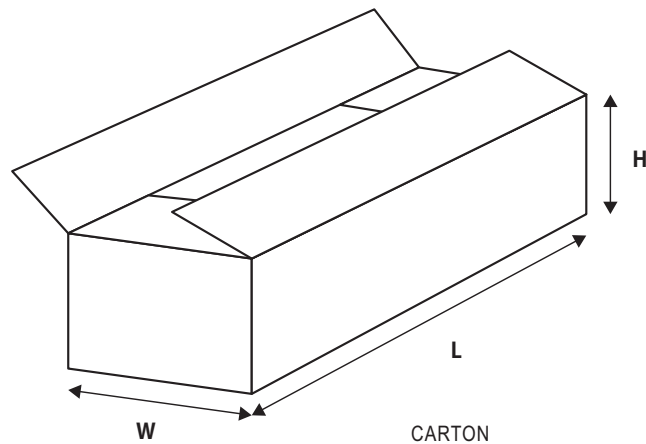


Packing

Standard Tube Packing	LDB-L			
	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm 	15	260g	750	13.8Kg
Unit : mm 	LDB-LW			
	MPQ (Box)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
	20	440g	240	6.08Kg

Standard Tube Packing

Unit : mm



CARTON
L600 x W230 x H220

■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>